

WEST

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(battery and (thin adj (metal or foil)) and gas).clm. and electrode and electrolyte	8

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USPT	(battery and (thin adj (metal or foil)) and gas).clm. and electrode and electrolyte	8	<u>L17</u>
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USPT	(battery and hole and gas).clm. and electrode and electrolyte	69	<u>L10</u>
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USPT	(battery and vent).clm. and electrode and electrolyte	139	<u>L2</u>
USPT	(battery and cap and gas and valve and thin).clm. and electrode and electrolyte	2	<u>L1</u>

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PRIORITY
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L8: Entry 1 of 5

File: DWPI

Dec 26, 2000

DERWENT-ACC-NO: 2001-051575

DERWENT-WEEK: 200134

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TITLE: Sealed battery for e.g. mobile telephones, has shield between thin film and generator element that protects thin film from electrolyte to secure gas channel to gas release hole

INVENTOR: SUGITA, N

PATENT-ASSIGNEE:

ASSIGNEE	CODE
SANYO ELECTRIC CO LTD	SAOL

PRIORITY-DATA: 1999JP-0076738 (March 19, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
KR 2000076889 A	December 26, 2000	N/A	000	H01M002/02
EP 1039565 A2	September 27, 2000	E	010	H01M002/12
CN 1267919 A	September 27, 2000	N/A	000	H01M002/02
JP 2000277081 A	October 6, 2000	N/A	006	H01M002/12

DESIGNATED-STATES: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
KR2000076889A	March 17, 2000	2000KR-0013551	N/A
EP 1039565A2	March 16, 2000	2000EP-0105612	N/A
CN 1267919A	March 18, 2000	2000CN-0108315	N/A
JP2000277081A	March 19, 1999	1999JP-0076738	N/A

INT-CL (IPC): H01M 2/02; H01M 2/04; H01M 2/12

ABSTRACTED-PUB-NO: EP 1039565A

BASIC-ABSTRACT:

NOVELTY - A sealed battery comprises a generator element that is an electrode group (20) impregnated with electrolyte. A casing (10) with an opening encloses the generator element. The opening is sealed with a closure cap (30) having a gas release valve formed by covering a gas release hole (360) with a thin film (361). A shield (342), between the thin film and the generator element, protects the thin film from the electrolyte to secure a gas channel to the gas release hole.

USE - For the power source of portable electronic devices, e.g. mobile telephones, audiovisual devices and computers.

ADVANTAGE - The thin film rarely breaks, even when dropped.

DESCRIPTION OF DRAWING(S) - The drawing shows a cross-section of the sealed battery.

casing 10

electrode group 20

closure cap 30

shield 342

gas release hole 360

thin film 361

CHOSEN-DRAWING: Dwg. 2/4

TITLE-TERMS: SEAL BATTERY MOBILE TELEPHONE SHIELD THIN FILM GENERATOR ELEMENT
PROTECT THIN FILM ELECTROLYTIC SECURE GAS CHANNEL GAS RELEASE HOLE

DERWENT-CLASS: T01 W01 W04 X16

EPI-CODES: T01-L01; W01-C01D3C; W04-M01; X16-F01A; X16-F03B;

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N2001-039621